

## Amendments to the claims

**1-20** (cancelled)**21.** (new)

A potable water circulation system for circulating water in a municipal water distribution network comprising, a branch pipe having a source end, a plurality of extremities therein at distances from said source end, and segment valves therein between said source end and said extremities; said potable water circulation system comprising; pump means having a nominal capacity; an auxiliary pipe extending along and outside said branch pipe and being connected to said pump means, to said extremities and to said source end; said auxiliary pipe being connected to said pump means for circulation of water therein from said source end toward said extremities, and for causing a flow of water inside said branch pipe from said extremities, through said segment valves, and toward said source end.

**22.** (new)

The potable water circulation system as claimed in **claim 21**, wherein said branch pipe has a high water demand and a low water demand, and said nominal capacity of said pump means corresponds to said low water demand.

**23. (new)**

The potable water circulation system as claimed in **claim 21**, wherein said auxiliary pipe is smaller in size than said branch pipe.

**24. (new)**

The potable water circulation system as claimed in **claim 21**, wherein said extremities comprise a fire hydrant or a dead end.

**25. (new)**

The potable water circulation system as claimed in **claim 21**, further comprising a plurality of flow control valves mounted in said auxiliary pipe for individually selectively controlling a flow of water from said source end and into each of said extremities.

**26. (new)**

The potable water circulation system as claimed in **claim 25**, wherein at least one of said flow control valves is located near one of said segment valves.

**27. (new)**

The potable water circulation system as claimed in **claim 22** comprising means to cause a minimal circulation of water in said branch pipe when a demand in said branch pipe corresponds to said low water demand, and means to reverse said circulation when said demand in said branch pipe corresponds to said high water demand.

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**28. (new)**

The potable water circulation system as claimed in **claim 22**, further comprising a water treatment system connected to said auxiliary pipe for upgrading a quality of water inside said auxiliary pipe.

**29. (new)**

The potable water circulation system as claimed in **claim 22**, further comprising isolating valves between said branch pipe and said auxiliary pipe for selectively isolating said auxiliary pipe from said branch pipe.

**30. (new)**

The potable water circulation system as claimed in **claim 28**, wherein said branch pipe belongs to a water distribution system of a residential subdivision, and said low water demand is slightly more than a normal demand of water by consumers in said subdivision.